SEQUENCE LISTING

<110> Oxford Biomedica (UK) Limited
<120> Polypeptide
<130> p5020wo
<140>
<141>
<160> 4
<170> PatentIn Ver. 2.0
<210> 1
<211> 1263
<212> DNA
<213> Homo sapiens
<400> 1

atgcctgggg ggtgctcccg gggccccgcc gccggggacg ggcgtctgcg gctggcgcga 60
ctagcgctgg tactcctggg ctgggtctcc tcgtcttctc ccacctcctc ggcatcctcc 120
ttctcctcct cggcgccgtt cctggcttcc gccgtgtccg cccagccccc gctgccggac 180
cagtgccccg cgctgtgcga gtgctccgag gcagcgcgca cagtcaagtg cgttaaccgc 240
aatctgaccg aggtgcccac ggacctgccc gcctacgtgc gcaacctctt ccttaccggc 300
aaccagctgg ccgtgctccc tgccggcgcc ttcgcccgcc ggccgccgct ggcggagctg 360
gccgcgctca acctcagcgg cagccgcctg gacgaggtgc gcgcgggcgc cttcgagcat 420
ctgcccagcc tgcgccagct cgacctcagc cacaacccac tggccgacct cagtcccttc 480
gctttctcgg gcagcaatgc cagcgtctcg gcccccagtc cccttgtgga actgatcctg 540
aaccacatcg tgcccccctga agatgagcgg cagaaccgga gcttcgaggg catggtggtg 600
gcggccctgc tggcgggccg tgcactgcag gggctccgcc gcttggagct ggccagcaac 660
cacttccttt acctgccgcg ggatgtgctg gcccaactgc ccagcctcag gcacctggac 720
ttaagtaata attcgctggt gagcctgacc tacgtgtcct tccgcaacct gacacatcta 780
gaaagcctcc acctggagga caatgccctc aaggtccttc acaatggcac cctggctgag 840
ttgcaaggtc taccccacat tagggttttc ctggacaaca atccctgggt ctgcgactgc 900
cacatggcag acatggtgac ctggctcaag gaaacagagg tagtgcaggg caaagaccgg 960
ctcacctgtg catatccgga aaaaatgagg aatcgggtcc tcttggaact caacagtgct 1020
gacctggact gtgacccgat tcttcccccа tccctgcaaa cctcttatgt cttcctgggt 1080
attgttttag ccctgatagg cgctattttc ctcctggttt tgtatttgaa ccgcaagggg 1140
ataaaaaagt ggatgcataa catcagagat gcctgcaggg atcacatgga agggtatcat 1200
tacagatatg aaatcaatgc ggaccccaga ttaacaaacc tcagttctaa ctcggatgtc 1260
tga 1263

<210> 2
<211> 1281
<212> DNA
<213> Mus musculus

<400> 2
atgcctgggg cgggctcccg gggcccctcc gccggggacg gacggctgag gttggcaagg 60

ctggcgctag tgctgctggg ttgggtctcc gcgtcggccc ccagctcttc ggtaccctcg 120
tcttccacct ccccggcaga cttcctggcc tcggggtctg cgcagcctcc gccagccgag 180
agatgccccg cggcgtgcga gtgctccgag gcggcgcgca cggttaagtg cgtgaaccgc 240
aacctgctgg aggtgccggc ggatctaccg ccttacgtgc gcaacctttt ccttaccggc 300
aaccagatga ccgtgctccc cgcgggcgcc ttcgcccgcc agccgccgct cgccgacctg 360
gaggcgctca acctcagcgg caaccacctg aaggaggtgt gtgcaggtgc cttcgagcat 420
ctgccgggtc tgcgccggct tgacctcagc cacaaccctc tcaccaacct cagcgccttc 480
gtctttgcgg gcagcaacgc cagcgtctcg gcccccagcc ccctggagga gctgatcctg 540
aatcacatcg tgccccctga ggatcagagg cagaacggga gcttcgaggg tatggtggcc 600
ttcgaaggca tggtggcagc agctctgcgc tcaggccttg cactccgagg tcttacacgc 660
ctggagctag ccagcaatca ctttcttttc ctgcctcggg acttactagc ccaactgccg 720
agtctcagat acctggacct caggaacaat tccctggtga gcctgaccta cgcatccttc 780
cgcaacctga cacacctcga acgcctccac ttggaggaca atgccctcaa ggtccttcac 840
aactccacct tggctgagtg gcaaggcctg gctcatgtca aggtgttcct ggacaacaat 900
ccctgggttt gcgactgcta catggctgac atggtggctt ggcttaaaga gacagaggtg 960
gtgccagata aagccaggct tacctgcgca ttcccggaga agatgaggaa tcgtggcctc 1020
ttagacctca acagctctga cctggactgt gacgctgtcc ttccccaatc cctgcagact 1080
tcctatgtct tcctaggtat tgttttagct ctgataggcg ctattttcct cctcgttttg 1140
tatttgaacc gtaaaggcat aaaaaagtgg atgcataaca tcagagatgc ctgcagggat 1200
cacatggaag ggtatcatta cagatacgaa atcaatgcgg accccagatt aacaaatctt 1260
agttccaact cggatgtctg a 1281

<210> 3
<211> 901
<212> DNA
<213> Canis sp.

<400> 3
atcgtgcccc ccgacgaccg gcggcagaac cggagcttcg aggtcatggt ggcggctgcc 60
vddrrnrsvm vaaactccga gcgggccgcg cgcttcgcgg gctgcagtgc ctggagctgg 120
ccggcaaccg cttcragrar gcagnrctct acttgcctcg cgacgtcctg gcccagctac 180
ccggcctccg gcacctggac ctgcgcyrdv agrhdraaca attccctggt gagcctcacc 240
tacgtgtcct tccgcaacct gacgcacttg gagagcnnsv styvsrnths ctccacctgg 300
aggacaacgc cctcaaggtc cttcacaacg ccaccctggc ggagctgcag hdnakvhnat 360
aagcctgccc cacgtccggg tcttcctgga caacaacccc tgggtctgcg attgtcacat 420
gshvrvdnnw vcdchmgcag acatggtggc ctggctcaag gagacagagg tggtgccggg 480
caaagccggg ctcaccadmv awktvvgkag ttgtgcattc ccggagaaaa tgaggaatcg 540
ggccctcttg gaactcaaca gctcccacct gcakmrnran sshgactgtg accctatcct 600
ccctccatcc ctgcagactt cttatgtctt cctaggtatt gtcdcdstsy vgvttagccc 660
tgataggcgc catcttccta ctggttttgt atttgaaccg caaggggata aagagavynr 720
kgkaagtgga tgcataacat cagagatgcc tgcagggatc acatggaagg gtatcactac 780
agakwmhnrd acrdhmgyhy rtacgaaatc aatgcagacc ccaggttaac aaacctcagt 840
tccaattcgg atgtctgaga anadrtnss nsdvacagtc ggggacagac caaggacaac 900
t 901

<210> 4
<211> 238
<212> PRT
<213> Canis sp.

<400> 4
Ile Val Pro Pro Asp Asp Arg Arg Gln Asn Arg Ser Phe Glu Val Met
1 5 10 15

Val Ala Ala Ala Leu Arg Ala Gly Arg Ala Leu Arg Gly Leu Gln Cys
20 25 30
Leu Glu Leu Ala Gly Asn Arg Phe Leu Tyr Leu Pro Arg Asp Val Leu
35 40 45

Ala Gln Leu Pro Gly Leu Arg His Leu Asp Leu Arg Asn Asn Ser Leu
50 55 60

Val Ser Leu Thr Tyr Val Ser Phe Arg Asn Leu Thr His Leu Glu Ser
65 70 75 80

Leu His Leu Glu Asp Asn Ala Leu Lys Val Leu His Asn Ala Thr Leu
85 90 95

Ala Glu Leu Gln Ser Leu Pro His Val Arg Val Phe Leu Asp Asn Asn
100 105 110

Pro Trp Val Cys Asp Cys His Met Ala Asp Met Val Ala Trp Leu Lys
115 120 125

```
Glu Thr Glu Val Val Pro Gly Lys Ala Gly Leu Thr Cys Ala Phe Pro
    130                 135                 140

Glu Lys Met Arg Asn Arg Ala Leu Leu Glu Leu Asn Ser Ser His Leu
145                 150                 155                 160

Asp Cys Asp Pro Ile Leu Pro Pro Ser Leu Gln Thr Ser Tyr Val Phe
                165                 170                 175

Leu Gly Ile Val Leu Ala Leu Ile Gly Ala Ile Phe Leu Leu Val Leu
            180                 185                 190

Tyr Leu Asn Arg Lys Gly Ile Lys Lys Trp Met His Asn Ile Arg Asp
        195                 200                 205

Ala Cys Arg Asp His Met Glu Gly Tyr His Tyr Arg Tyr Glu Ile Asn
    210                 215                 220

Ala Asp Pro Arg Leu Thr Asn Leu Ser Ser Asn Ser Asp Val
225                 230                 235
```

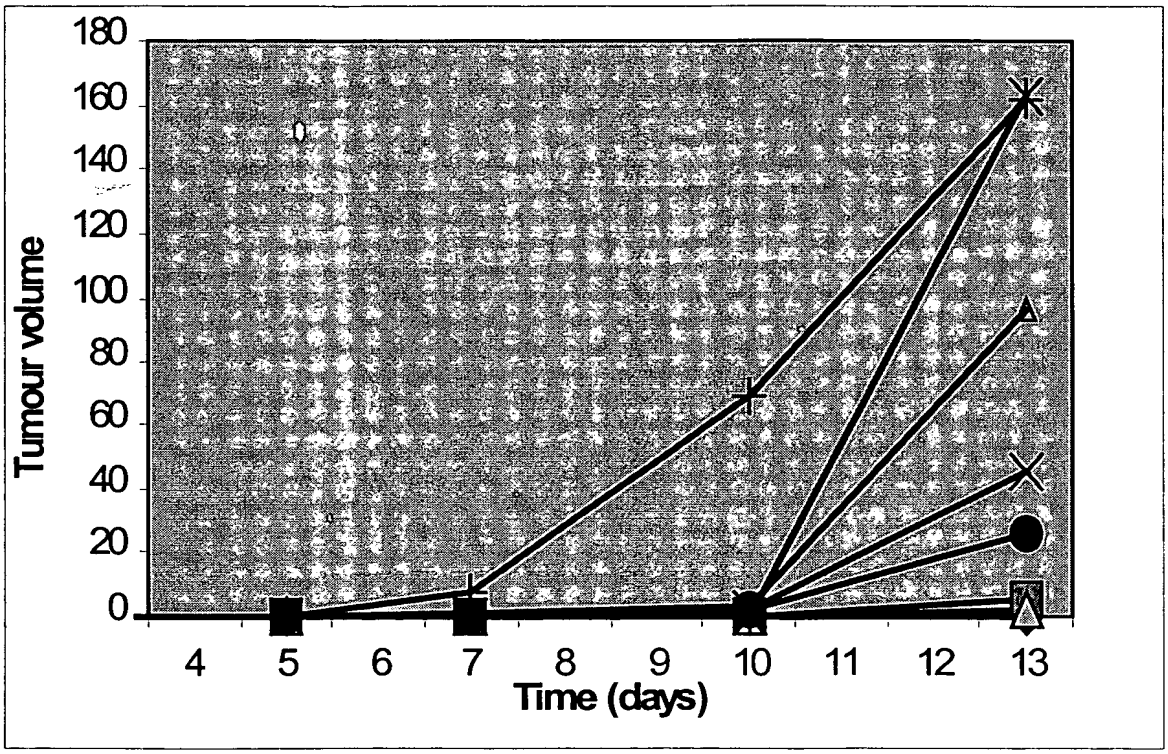
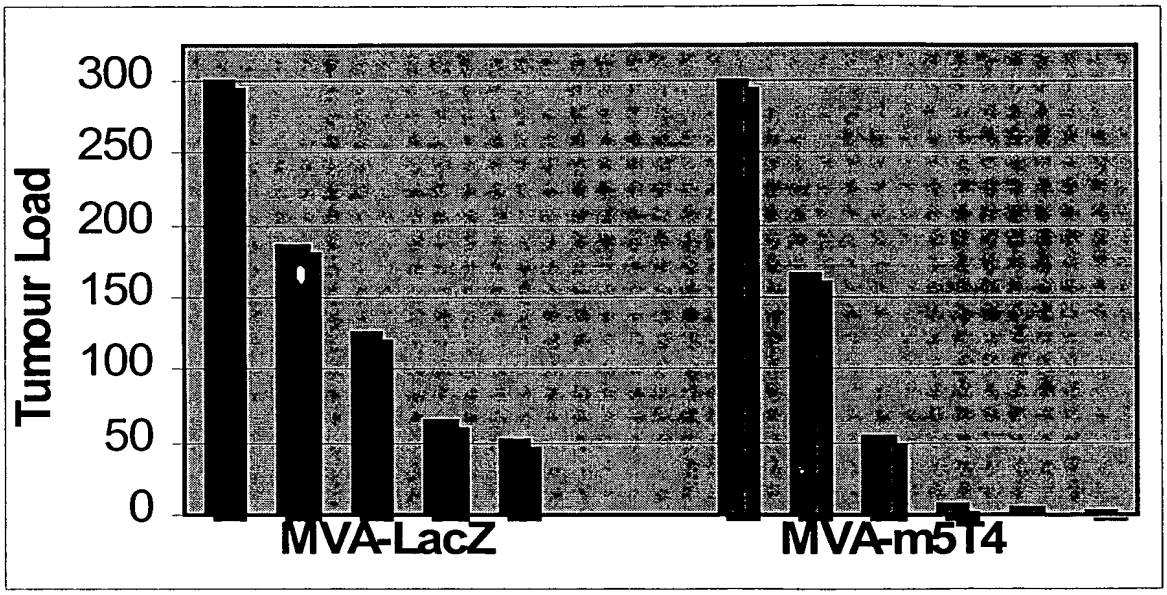

180
160
140
120
100
80
60
40
20
0
Tumour volume
4
5
6
7
8
9
10
11
12
13
Time (days)

Figure 6


Tumour Load
300
250
200
150
100
50
0
MVA-LacZ
MVA-m5T4

Parker, K. C et al. Coligan. *1994.J.Immunol. 152:163.*